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Search result: 5 of 5

(WO/2001/054733) NUCLEIC ACIDS, PROTEINS AND ANTIBODIES

[Biblio. Data](#) [Description](#) [Claims](#) [National Phase](#) [Notices](#) [Documents](#)

Note: OCR Text

What is Claimed is : 1. An isolated nucleic acid molecule comprising a polynucleotide having a nucleotide sequence at least 95% identical to a sequence selected from the group consisting of : (a) a polynucleotide fragment of SEQ ID NO : X or a polynucleotide fragment of the cDNA sequence contained in Clone ID NO : Z, which is hybridizable to SEQ ID NO : X ; (b) a polynucleotide encoding a polypeptide fragment of SEQ ID NO : Y or a polypeptide fragment encoded by the cDNA sequence contained in cDNA Clone ID NO : Z, which is hybridizable to SEQ ID NO : X ; (c) a polynucleotide encoding a polypeptide fragment of a polypeptide encoded by SEQ ID NO : X or a polypeptide fragment encoded by the cDNA sequence contained in cDNA Clone ID NO : Z, which is hybridizable to SEQ ID NO : X ; (d) a polynucleotide encoding a polypeptide domain of SEQ ID NO : Y or a polypeptide domain encoded by the cDNA sequence contained in cDNA Clone ID NO : Z, which is hybridizable to SEQ ID NO : X ; (e) a polynucleotide encoding a polypeptide epitope of SEQ ID NO : Y or a polypeptide epitope encoded by the cDNA sequence contained in cDNA Clone ID NO : Z, which is hybridizable to SEQ ID NO : X ; (f) a polynucleotide encoding a polypeptide of SEQ ID NO : Y or the cDNA sequence contained in cDNA Clone ID NO : Z, which is hybridizable to SEQ ID NO : X, having biological activity ; (g) a polynucleotide which is a variant of SEQ ID NO : X ; (h) a polynucleotide which is an allelic variant of SEQ ID NO : X ; (i) a polynucleotide which encodes a species homologue of the SEQ ID NO : Y ; (j) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)- (i), wherein said polynucleotide does not hybridize under stringent conditions to a nucleic acid molecule having a nucleotide sequence of only A residues or of only T residues.

2. The isolated nucleic acid molecule of claim 1, wherein the polynucleotide fragment comprises a nucleotide sequence encoding a protein.

3. The isolated nucleic acid molecule of claim 1, wherein the polynucleotide fragment comprises a nucleotide sequence encoding the sequence identified as SEQ ID NO : Y or the polypeptide encoded by the cDNA sequence contained in cDNA Clone ID NO : Z, which is hybridizable to SEQ ID NO : X.

4. The isolated nucleic acid molecule of claim 1, wherein the polynucleotide fragment comprises the entire nucleotide sequence of SEQ ID NO : X or the cDNA sequence contained in cDNA Clone ID NO : Z, which is hybridizable to SEQ ID NO : X.

5. The isolated nucleic acid molecule of claim 2, wherein the nucleotide sequence comprises sequential nucleotide deletions from either the C-terminus or the N- terminus.

6. The isolated nucleic acid molecule of claim 3, wherein the nucleotide sequence comprises sequential nucleotide deletions from either the C-terminus or the N- terminus.

7. A recombinant vector comprising the isolated nucleic acid molecule of claim 1.

8. A method of making a recombinant host cell comprising the isolated nucleic acid molecule of claim 1.

9. A recombinant host cell produced by the method of claim 8.

10. The recombinant host cell of claim 9 comprising vector sequences.

11. An isolated polypeptide comprising an amino acid sequence at least 90% identical to a sequence selected from the group consisting of : (a) a polypeptide fragment of SEQ ID NO : Y or the encoded sequence contained in cDNA Clone ID NO : Z ; (b) a polypeptide fragment of SEQ ID NO : Y or the encoded sequence contained in cDNA Clone ID NO : Z, having biological activity ; (c) a polypeptide domain of SEQ ID NO : Y or the encoded sequence contained in cDNA Clone ID NO : Z ; (d) a polypeptide epitope of SEQ ID NO : Y or the encoded sequence contained in cDNA Clone ID NO : Z ; (e) a full length protein of SEQ ID NO : Y or the encoded sequence contained in cDNA Clone ID NO : Z ; (f) a variant of SEQ ID NO : Y ; (g) an allelic variant of SEQ ID NO : Y ; or (h) a species homologue of the SEQ ID NO : Y.

12. The isolated polypeptide of claim 11, wherein the full length protein comprises sequential amino acid deletions from either the C-terminus or the N-terminus.

13. An isolated antibody that binds specifically to the isolated polypeptide of claim 11.

14. A recombinant host cell that expresses the isolated polypeptide of claim 11.

15. A method of making an isolated polypeptide comprising : (a) culturing the recombinant host cell of claim 14 under conditions such that said polypeptide is expressed ; and (b) recovering said polypeptide.

16. The polypeptide produced by claim 15.

17. A method for preventing, treating, or ameliorating a medical condition, comprising administering to a mammalian subject a therapeutically effective amount of the polynucleotide of claim 1.

18. A method of diagnosing a pathological condition or a susceptibility to a pathological condition in a subject comprising : (a) determining the presence or absence of a mutation in the polynucleotide of claim 1 ; and (b) diagnosing a pathological condition or a susceptibility to a pathological condition based on the presence or absence of said mutation.

19. A method of diagnosing a pathological condition or a susceptibility to a pathological condition in a subject comprising : (a) determining the presence or amount of expression of the polypeptide of claim 11 in a biological sample ; and (b) diagnosing a pathological condition or a susceptibility to a pathological condition based on the presence or amount of expression of the polypeptide.

20. A method for identifying a binding partner to the polypeptide of claim 11 comprising : (a) contacting the polypeptide of claim 11 with a binding partner ; and (b) determining whether the binding partner effects an activity of the polypeptide.

21. The gene corresponding to the cDNA sequence of SEQ ID NO : Y.

22. A method of identifying an activity in a biological assay, wherein the method comprises : (a) expressing SEQ ID NO : X in a cell ; (b) isolating the supernatant ; (c) detecting an activity in a biological assay ; and identifying the protein in the supernatant having the activity.

23. The product produced by the method of claim 20.

24. A method for preventing, treating, or ameliorating a medical condition, comprising administering to a mammalian subject a therapeutically effective amount of the polypeptide of claim 11.